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Sequence Listing was accepted.

See attached Validation Report.

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Reviewer: Durreshwar Anjum

Timestamp: [year=2009; month=6; day=16; hr=14; min=28; sec=40; ms=678;]

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Application No: 10595610 Version No: 1.0

Input Set:

Output Set:

Started: 2009-05-28 17:18:50.165
Finished: 2009-05-28 17:18:50.697
Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 532 ms
Total Warnings: 3
Total Errors: 1
No. of SeqIDs Defined: 3
Actual SeqID Count: 3

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
E 257	Invalid sequence data feature in <221> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)

SEQUENCE LISTING

<110> Remer, Ricardo A
Coronha Lima, Marcia
Margis, Rogerio
Alves Ferreira, Marcio

<120> Pharmaceutical Product Comprising Tissue of the Mail Vegetal
Reproductive System

<130> 048220.001US

<140> 10595610

<141> 2009-05-28

<150> PCT/BR04/00100

<151> 2004-11-12

<150> BR PI0305197

<151> 2003-11-12

<160> 3

<170> PatentIn version 3.5

<210> 1

<211> 1818

<212> DNA

<213> Artificial Sequence

<220>

<223> Complete sequence of the coding region of AtGRP17 (4940-5358) +
(5545-6757) - cDNA

<220>

<221> cDNA

<222> (1)..(1818)

<400> 1

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tatgttctct tttctcatgc cactgttgga gggtattaag attattattg cttctgtggc 180

ctccgtaatc ttcgtcgggtt tcgcctgtgt aaccctcgtt ggttctgccg cagcattagt 240

cgtaagcacc ccggttttca tcatatttag tcctgttctc gtaccagcta cgatagccac 300

ggttgtcttg ggcacaggat tcacggccgg tggtcttttt ggagcgacgg cacttgggtct 360

atgagcgaag aactaagtca aaagccatca tcagctcagt ccatcatgtg gcttggttaag 420

taagattatt ataacagctt atattgagat cactcgagat ttatgcttaa ttatataata 480

ttcataaacc tatagtttaa aagtatat	540
ttgaacttcg ttcgttttct taattgg	600
tgcagacgta ggatgggagt aaagccga	660
aattcgggag caggagcagg aggagct	720
aaaggtgggc ttaaggcttg gtgtaaga	780
ggcaagtccg ggggtggaaa aagtaaatt	840
gaaggtatgt cgtctgggga tgaaggtat	900
gaaggaggta aatccaaaag tggaaaagg	960
ggtatgtccg gaggggccga gagtgaaga	1020
ggtggtggag gaagtaaate caaaagtaa	1080
aaaaaaggta tgtccggagg catgtcagga	1140
ggtatgtcca gtggtggagg aagtaaate	1200
ttgggaaaga aaaaagggtat gtccggagg	1260
agtgaaggag gtatgtccgg aggtggagga	1320
aaagctaaat tgggaaagaa aaaatgtat	1380
atgtctggaa gtgaaggagg tatatccgga	1440
cacaaaattg gaggaggtaa acacggagg	1500
atgtccggaa gtggaggagg catgtcagga	1560
agtatgtctg gaggtggtat gtctgggggt	1620
aaacacggag gtcttagagg taaattcgga	1680
ggtatgtctg gaagtgaagg aggtatgtcg	1740
aaacacaaaa tcggaggagg taaacacaaa	1800
ggccacatgg cggagtaa	1818

<210> 2

<211> 543

<212> PRT

<213> Artificial Sequence

<220>

<223> This protein results from the translation of ATGRP17

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1 5 10 15

Leu Arg Glu Gly Arg Asn Arg Phe Pro Phe Leu Ser Leu Ser Gln Arg
20 25 30

Glu Gly Arg Phe Phe Pro Ser Leu Ser Leu Ser Glu Arg Asp Gly Arg
35 40 45

Lys Phe Ser Phe Leu Ser Met Phe Ser Phe Leu Met Pro Leu Leu Glu
50 55 60

Val Ile Lys Ile Ile Ile Ala Ser Val Ala Ser Val Ile Phe Val Gly
65 70 75 80

Phe Ala Cys Val Thr Leu Ala Gly Ser Ala Ala Ala Leu Val Val Ser
85 90 95

Thr Pro Val Phe Ile Ile Phe Ser Pro Val Leu Val Pro Ala Thr Ile
100 105 110

Ala Thr Val Val Leu Ala Thr Gly Phe Thr Ala Gly Gly Ser Phe Gly
115 120 125

Ala Thr Ala Leu Gly Leu Ile Met Trp Leu Val Lys Arg Arg Met Gly
130 135 140

Val Lys Pro Lys Asp Asn Pro Pro Pro Ala Gly Leu Pro Pro Asn Ser
145 150 155 160

Gly Ala Gly Ala Gly Gly Ala Gln Ser Leu Ile Lys Lys Ser Lys Ala
165 170 175

Lys Ser Lys Gly Gly Leu Lys Ala Trp Cys Lys Lys Met Leu Lys Ser
180 185 190

Lys Phe Gly Gly Lys Lys Gly Lys Ser Gly Gly Gly Lys Ser Lys Phe
195 200 205

Gly Gly Lys Gly Gly Lys Ser Glu Gly Glu Glu Gly Met Ser Ser Gly
210 215 220

Asp Glu Gly Met Ser Gly Ser Glu Gly Gly Met Ser Gly Gly Glu Gly

225		230		235		240									
Gly	Lys	Ser	Lys	Ser	Gly	Lys	Gly	Lys	Leu	Lys	Ala	Lys	Leu	Glu	Lys
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Lys	Lys	Gly	Met	Ser	Gly	Gly	Ser	Glu	Ser	Glu	Glu	Gly	Met	Ser	Gly
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Ser	Glu	Gly	Gly	Met	Ser	Gly	Gly	Gly	Gly	Ser	Lys	Ser	Lys	Ser	Lys
		275						280				285			
Lys	Ser	Lys	Leu	Lys	Ala	Lys	Leu	Gly	Lys	Lys	Lys	Gly	Met	Ser	Gly
	290					295					300				
Gly	Met	Ser	Gly	Ser	Glu	Glu	Gly	Met	Ser	Gly	Ser	Glu	Gly	Gly	Met
305					310					315					320
Ser	Ser	Gly	Gly	Gly	Ser	Lys	Ser	Lys	Ser	Lys	Lys	Ser	Lys	Leu	Lys
			325					330						335	
Ala	Lys	Leu	Gly	Lys	Lys	Lys	Gly	Met	Ser	Gly	Gly	Met	Ser	Gly	Ser
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Glu	Glu	Gly	Met	Ser	Gly	Ser	Glu	Gly	Gly	Met	Ser	Gly	Gly	Gly	Gly
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Lys	Lys	Cys	Met	Ser	Gly	Gly	Met	Ser	Gly	Ser	Glu	Gly	Gly	Met	Ser
385					390					395					400
Gly	Ser	Glu	Gly	Gly	Ile	Ser	Gly	Gly	Gly	Met	Ser	Gly	Gly	Ser	Gly
			405						410					415	
Ser	Lys	His	Lys	Ile	Gly	Gly	Gly	Lys	His	Gly	Gly	Leu	Gly	Gly	Lys
		420						425					430		
Phe	Gly	Lys	Lys	Arg	Gly	Met	Ser	Gly	Ser	Gly	Gly	Gly	Met	Ser	Gly
	435							440				445			
Ser	Glu	Gly	Gly	Val	Ser	Gly	Ser	Glu	Gly	Ser	Met	Ser	Gly	Gly	Gly
	450					455					460				

Met Ser Gly Gly Ser Gly Ser Lys His Lys Ile Gly Gly Gly Lys His
465 470 475 480

Gly Gly Leu Arg Gly Lys Phe Gly Lys Lys Arg Gly Met Ser Gly Ser
485 490 495

Glu Gly Gly Met Ser Gly Ser Glu Gly Gly Met Ser Glu Ser Gly Met
500 505 510

Ser Gly Ser Gly Gly Gly Lys His Lys Ile Gly Gly Gly Lys His Lys
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Phe Gly Gly Gly Lys His Gly Gly Gly Gly Gly His Met Ala Glu
530 535 540

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<211> 1569
<212> DNA
<213> Artificial Sequence

<220>
<223> Complete sequence of the promoter region of the AtGRP17

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attcaatcgt gagacattga aattgtcgtt tctccattac ctttttggaa gaaaaaccat 180
cgaaagctag ctaagacttt ttttattaaa cgaacttgct actatttcta tgttttcttt 240
gaaatgaaaa ttaaatttgt tactgtttca cctaaaactc aaaagtattg ctttttaatt 300
ttattattaa gaaaaactaa tcttatttat gttaagaaac ctgtcaattt ttcattgtta 360
atttcggctc tataattatt aattaacaat caatttctca aaaattgcaa tcatgattat 420
gattagatat atattagttg gattgtgatg catTTTTTgt aatataaaat ggatgtttgt 480
attagtttct cactcatgta attaaacacc aaatgctaga aactagtact tttgtttctc 540
agctctcgtc tattgttata tctgcaacac gaacaaaaac cttatctagg tgttatatat 600
cacggttatg tttatgagtt agaagggtt cttcaacaaa aatcacggaa ctacttgtat 660
atatgtatgt gtgtatccga tcgaggttga cttccgggggt tggacgttga agaagacgaa 720
ttcattgatt gggcttatat atgggcatgt attacttggt tcaagtttgt aacactttta 780

gctttttcaa ttctattcga aacccaaaata ttgggctata tatctttata caaccttcaa	840
gataaattgg accaatTTta gaagagcaaa ttgaacccgg ccgttagcgt tagccaaacc	900
ccaactcctt ttcagtacaa ttaaatacaag aattttctaataaatcgtgaa tttctagaca	960
tacatatcat aatttcgtca aagcgagcct acacctagtt ttgagctaca taactctttt	1020
cttttttttt ttatgattag gaggtttcaa aacccttgga cccataattt cttataatta	1080
gttttgtaat actaaattta ccattgagag cgacctctcg tcaactagtaa ttcgaagatc	1140
tcatattcat gacctatatt aacctcttc cagtcaagta atttcaatcg aaattcatca	1200
aatcatata tttaacttag taatcacata tgatatggct aatatacgta atataacgat	1260
aaagatttct tcacgctttg atattccata aagcaatgga aatatggaat ggaagaaaac	1320
atttgaattt tacaagaaac aataaataga aggcctacaa aacatgacaa cccacacaca	1380
cacacacgaa aagagaaaat ataaagaagg acatgtaacg tgacgtagcg tagatctcca	1440
ttcactccaa tcgttttgca tggagcatgc atgtgtgtgt accgtgcacg tagtagagac	1500
cacacaactc cttcataaaa gccctctctc tcttaccatc accaaaacac aacaatccga	1560
tcagaaaat	1569